

EN CONDENSING TANKLESS GAS WATER HEATERSP CALENTADOR A GAS TIPO CONDENSADO

Installation Manual Manual de Instalación

SBB800S Rev. 11/12

5995615126 November 2012



Thinking of you Installation Manual Electrolux

CONDENSING TANKLESS GAS WATER HEATER

EN18WI30LS EP18WI30LS

Potential dangers from accidents during installation and use are divided into the following three categories. Closely observe these warnings, they are critical to your safety.

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

Prohibited



Low NOx

Disconnect Power





Be sure to do

Requests to Installers

- In order to use the water heater safely, read this installation manual carefully, and follow the installation instructions.
- Failures and damage caused by erroneous work or work not as instructed in this manual are not covered by the warranty.
- Check that the installation was done properly in accordance with this Installation Manual upon completion.
- After completing installation, please either place this Installation Manual in a plastic pouch and attach it to the side of the water heater (or the inside of the pipe cover or recess box if applicable). or hand it to the customer to retain for future reference. Also, be sure to fill in all of the required items on the registration/warranty card and to hand the registration/warranty card to the customer along with the Use and Care Manual.



FOR USE IN RESIDENTIAL APPLICATIONS IN THE UNITED STATES ONLY. NOT INTENDED FOR USE IN CANADA OR MEXICO.

Installation must conform with local codes, or in the absence of local codes, the National Fuel Gas Code, ANSI Z223.1/NFPA 54- latest edition and/or CSA B149.1, Natural Gas and Propane Installation Code (NSCNGPIC).

Electrolux Home Products, Inc. reserves the right to discontinue, or change at any time, the designs and/or specifications of its products without notice.

1. Included Accessories

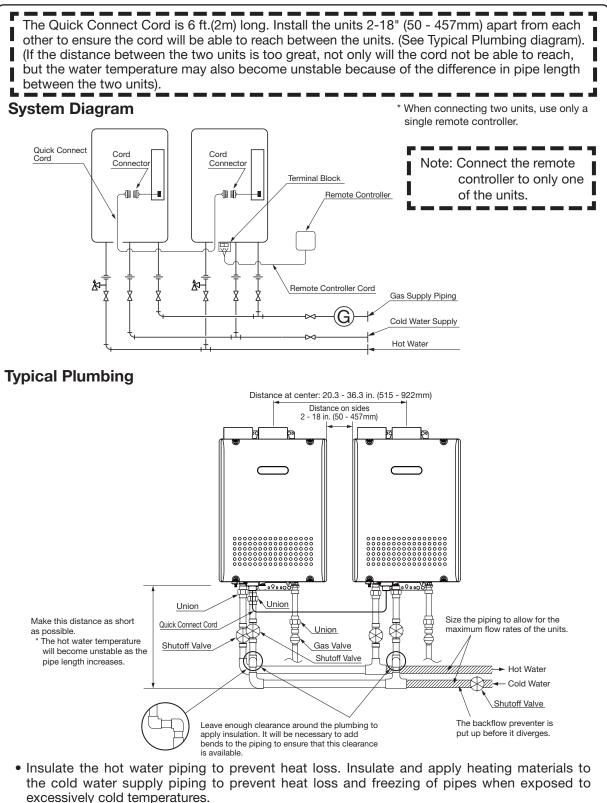
The following accessories are included with the unit. Check for any missing items before starting installation.

Part	Shape	Q'ty	Part	Shape	Q'ty
Tapping Screw	8) JULIU IIIIIII	5	Use and Care Manual, Warranty, Installation Manual (this document)		1 each
Remote Controller (See p. 29)			Remote Controller Cord (6ft (2m)) (RC-CORD6)	80°	1

2. Option	al Accesso	ries	 The accessories listed below are not included with the units, but may be necessar for installation. 			
Part	Shape	Q'ty	Part	Shape	Q'ty	
Quick Connect Cord (QC-2)		1	Remote Controller Cord (26ft (8m)) (RC-CORD26)	00°	1	
3" (75mm) PVC Terminal VK3-H-PVC		1	Bird Screen for 3" (75mm) PVC VT3-PVCS		2	
Isolation Valves (includes pressure relief valve)		1 each	Bird Screen for 4" (100mm) PVC VT4-PVCS		2	
Pipe Cover (PC-3S-SUS)		1	3" (75mm) / 4" (100mm) Horizontal Hood Termination PVT-HL		2	
SV Conversion Kit (#SV-CK-3) (•90° Elbow (With Inlet Screen) •Installation Manual (Check List)		1 each	Neutralizer (NC-1)		1	

3. Quick Connect Multi System Installation

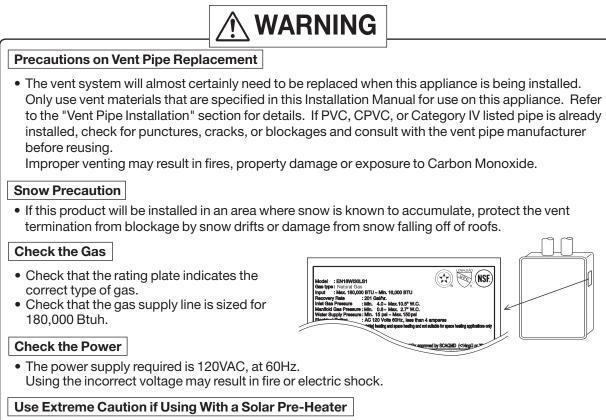
• The Quick Connect Multi System allows the installation of two units together utilizing only the Quick Connect Cord.



4. Before Installation

Checkup

• Check the fixing brackets and vent pipe yearly for damage or wear. Replace if necessary.



• Using this unit with a solar pre-heater can lead to unpredictable output temperatures and possibly scalding. If absolutely necessary, use mixing valves to ensure output temperatures do not get to scalding levels. Do not use a solar pre-heater with the quick-connect multi-system.

Do Not Use Equipment for Purposes Other Than Those Specified

• Do not use for other than increasing the temperature of the water supply, as unexpected accidents may occur as a result.

Check Water Supply Quality

• If the water supply is in excess of 12 grains per gallon (200 mg/L) of hardness, acidic or otherwise impure, treat the water with approved methods in order to ensure full warranty coverage.

5. Choosing Installation Site

* Locate the appliance in an area where leakage from the unit or connections will not result in damage to the area adjacent to the appliance or to the lower floors of the structure. When such locations cannot be avoided, it is recommended that a suitable drain pan, adequately drained, be installed under the appliance. The pan must not restrict combustion air flow.



• Locate the vent terminal so that there are no obstacles around the termination and so that exhaust can't accumulate. Do not enclose the termination with corrugated metal or other materials.



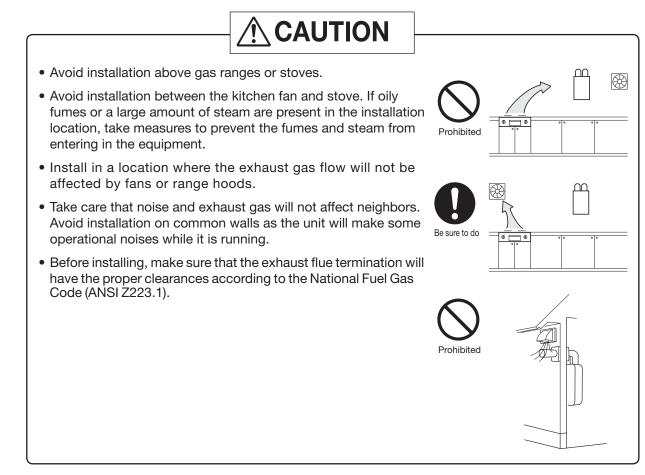
- Avoid places where fires are common, such as those where gasoline, benzene and adhesives are handled, or places in which corrosive gases (ammonia, chlorine, sulfur, ethylene compounds, acids) are present. Using the incorrect voltage may result in fire or cracking.
- Avoid installation in places where dust or debris will accumulate. Dust may block the air-supply opening, causing the performance of the device fan to drop and incomplete combustion to occur as a result.
- Avoid installation in places where special chemical agents (e.g., hair spray or spray detergent) are used.
 Ignition failures and malfunction may occur as a result.
- Carbon Monoxide Poisoning Hazard. Do not install this water heater in a recreational vehicle or on a boat.



- The water heater is designed for indoor installation only. Never install it outdoors or in a bathroom, it may be damaged or a fire may be caused.
- Consult with the customer concerning the location of installation.
- Install the water heater in an area that allows for the proper clearances to combustible and noncombustible construction. Consult the rating plate on the appliance for proper clearances.
- Do not install the water heater in a place where it may be threatened by falling objects, such as under shelves.
- The water heater must be installed in a place where supply and exhaust pipes can be installed as directed.
- Do not install the water heater where the exhaust will blow on outer walls or material not resistant to heat. Also consider the surrounding trees and animals.

The heat and moisture from the water heater may cause discoloration of walls and resinous materials, or corrosion of aluminum materials.





State of California: The water heater must be braced, anchored or strapped to avoid moving during an earthquake. Contact local utilities for code requirements in your area or call: Electrolux Home Products, Inc. at 1-888-360-8557 and request instructions.

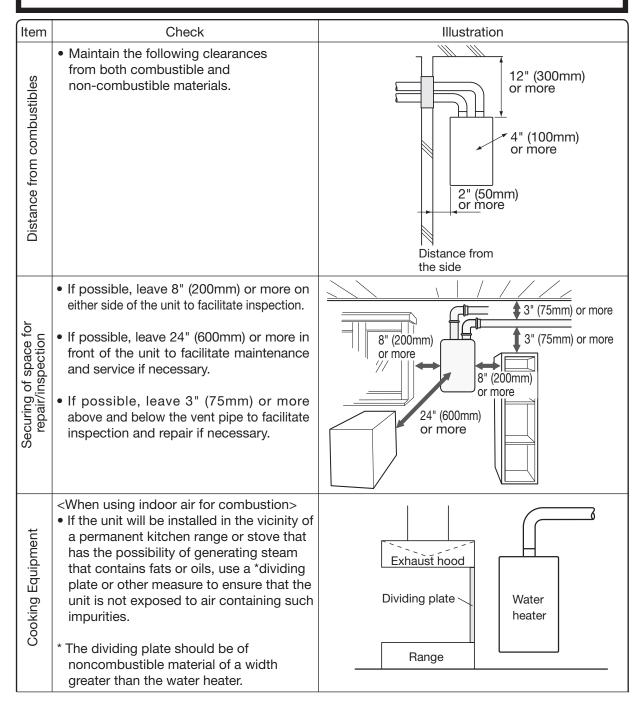
The Commonwealth of Massachusetts: The water heater can be used for hot water only and not in a combination of domestic and space heating.

For Venting Manufacturers Requirements, call Electrolux Home Products, Inc. at 1-888-360-8557 or visit us at www. electroluxappliances. com.

6. Installation Clearances

Before installing, check for the following:

Install in accordance with relevant building and mechanical codes, as well as any local, state or national regulations, or in the absence of local and state codes, to the National Fuel Gas Code ANSI Z223.1/NFPA 54 – latest edition.



Item	Check	Illustration
Outdoor Clearances to Opening into Any Building	 There must be a clearance of 24" (600mm) or more in front of the Flue terminal. This restriction will not be applied to an area where an effective shield makes a clearance of 24" (600mm) or more in front of the exhaust outlet. 	Théré múst bé no building opening within this area.

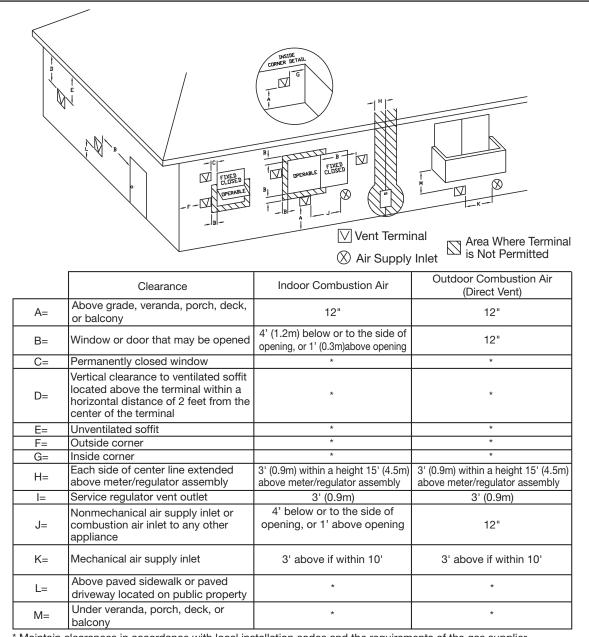
Clearance Requirements from Vent Terminations to Building Openings <When supplying combustion air from the indoors>

* All clearance requirements are in accordance with ANSI Z21.10.3 and the National Fuel Gas Code, ANSI Z223.1.

	Maintain the following clearances to any opening in any building:	Illustration
Vent Clearances When Heater is Installed Indoors	 For installations in the USA, 4' below, 4' horizontally from, or 1' above any door, operable window, or gravity air inlet into any building. 3' above any forced air inlet within 10'. 	

Clearance Requirements from Vent Terminations to Building Openings

* All clearance requirements are in accordance with ANSI Z21.10.3 and the National Fuel Gas Code, ANSI Z223.1.



* Maintain clearances in accordance with local installation codes and the requirements of the gas supplier.

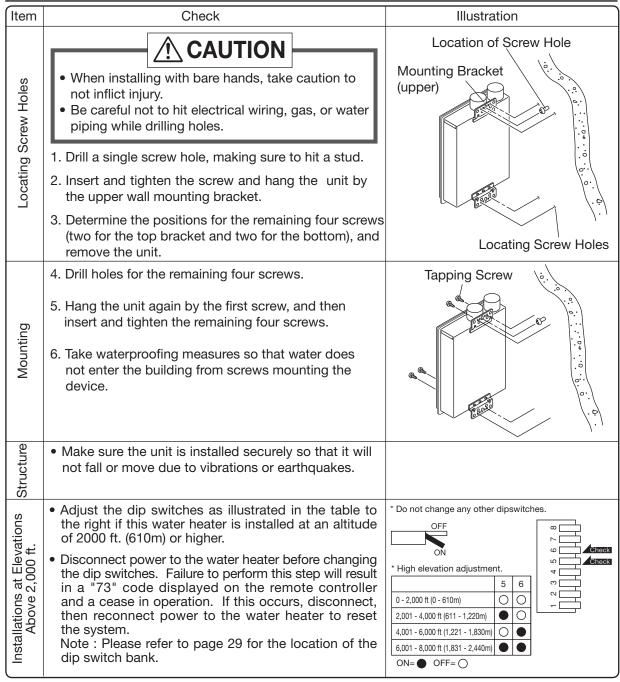
7. Installation

Securing to the wall

• The weight of the device will be applied to the wall. If the strength of the wall is not sufficient, reinforcement must be done to prevent the transfer of vibration.

• Do not drop or apply unnecessary force to the device when installing. Internal parts may be damaged and may become highly dangerous.

Install the unit on a vertical wall and ensure that it is level.



Filling the condensate trap with water

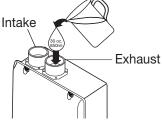
The condensate trap can be filled before connecting the vent pipe.

Filling the condensate trap before vent pipe installation.

DANGER Prior to initial start up, make sure that you fill the condensate trap with water. This is to prevent dangerous exhaust gases from entering the building. Failure to fill the condensate trap could result in severe personal injury or death.

Please follow one of the procedures described below to ensure that the condensate trap is filled with water.

1) Fill the condensate trap by pouring approx. 30 oz.(850ml) of water into the exhaust accessory on the top of the appliance as illustrated below.



Or, if the vent pipe has already been installed:

2) After installing the drain pipe, make sure that the area around the appliance is well ventilated; open a window or a door if necessary.

Then, operate the unit and verify that condensate is coming out of the drain pipe.

(During normal use of the water heater, condensate will begin to discharge from the drain pipe within

15 minutes of use. However, depending on the season and/or installation site conditions, it may take longer.)

Note: The condensate discharged from the water heater has a pH level of approximately 2-3. If required by local code, the condensate must be neutralized prior to disposal into the sewer system. Refer to pages 25-26 for additional details.

8. Vent Pipe Installation



CARBON MONOXIDE POISONING

Follow all vent system requirements in accordance with relevant local or state regulation, or, in the absence of local or state code, in the U.S. to the National Fuel Gas Code ANSI Z233.1/NFPA 54 - latest edition.

General Requirements

- Under normal conditions, this appliance will not produce an exhaust flue temperature in excess of 149°F (65°C) and schedule 40 PVC pipe may be used as the vent material. If required by local code, schedule 40 or 80 CPVC may also be used on this appliance. Refer to page 14 for additional requirements.
- · Make sure the vent system is gas tight and will not leak.
- Support the vent pipe with hangers at regular intervals as specified by these instructions or the instructions of the vent manufacturer.
- Do not common vent or connect more than one appliance to this venting system.
- The total vent length including horizontal & vertical vent runs should be no less than 3' (0.9m).
- Do not store hazardous or flammable substances near the vent termination and check that the termination is not blocked in any way.
- Steam or condensed water may come out from the vent termination. Select the location for the termination so as to prevent injury or property damage.
- If snow is expected to accumulate, take care the end of the pipe is not covered with snow or hit by falling lumps of snow.

Maximum Vent Lengths

- This appliance has been designed to be vented with either 3" (75mm) or 4" (100mm) PVC or CPVC pipe.
 - Do not exceed the following maximum vent lengths:

Pipe diameter	3" (75mm)	4" (100mm)			
No. of Elbows	Max. Straight Vent Length*				
6	24' (7.2m)	24' (7.2m)			
5	30' (9.0m)	30' (9.0m)			
4	35' (10.8m)	35' (10.8m)			
3	41' (12.6m)	41' (12.6m)			
2	47 (14.4m)	47 (14.4m)			
1	53' (16.2m)	53' (16.2m)			

* Not including the termination.

• Maintain the same vent pipe diameter from the heater flue to the vent termination. The exhaust and intake pipes must be the same vent pipe diameter.

Clearances

PVC or CPVC has been approved for use on this appliance with zero clearance to combustibles.

Maximum Vent Length Adjustment Dipswitches

The unit can be adjusted to accommodate longer vent runs; refer to the below table to find the maximum vent length based on the number of elbows. Adjust the dip switches according to the vent condition noted in the tables below.

- Note: By default, the unit has been set to the "short length" condition. When adjusting the dip switches for longer vent runs, the BTUH input of the appliance will be reduced by up to 5%.
 - Disconnect power to the water heater before changing the dip switches. Failure to perform this step will result in a "73" code displayed on the remote controller and a cease in operation. If this occurs, disconnect, then reconnect power to the water heater to reset the system. Note : Please refer to page 29 for the location of the dip switch bank.

[Maximum Vent Length Example]

- Two 90° elbows, maximum length = 18 ft. (5.4m) (with dip switches set at "short length" condition)
- Two 90° elbows, maximum length = 47 ft. (14.4m) (with dip switches set at "long length" condition)

<Maximum Vent Length Configurations>

V	ent leng	th		Elbows							
ft	m	Number of pieces**	0	1	2	3	4	5	6		
0	0.00	0	1 3	1 3	1 3	1 3	1 3	24	24		
3	0.90	1	1 3	1 3	1 3	1 3	1 3	2 4	24		
6	1.80	2	1 3	1 3	1 3	1 3	1 3	2 4	24		
9	2.70	3	1 3	1 3	1 3	1 3	2 4	2 4	24		
12	3.60	4	1 3	1 3	1 3	1 3	24	2 4	24		
15	4.50	5	1 3	1 3	1 3	24	24	2 4	24		
18	5.40	6	1 3	1 3	1 3	24	24	2 4	24		
21	6.30	7	1 3	1 3	24	24	24	2 4	24		
24	7.20	8	1 3	1 3	24	24	24	2 4	24		
27	8.10	9	1 3	24	24	24	24	2 4			
30	9.00	10	1 3	24	24	24	24	24]		
32	9.90	11	24	24	24	24	24				
35	10.80	12	24	24	24	24	24				
38	11.70	13	24	24	24	24					
41	12.60	14	24	24	24	24					
44	13.50	15	24	24	24						
47	14.40	16	24	24	24						
50	15.30	17	24	24		* Do not o	change any	other dips	witches.		
53	16.20	18	24	24			OFF				
56	17.10	19	24						∞[Check	
59	18.00	20	24				ON		9	Check	
(1) Short len	igth using 3" (75mm) pipe	3 Short lend	th using 4" (10)0mm) pipe	* Vent length condition.					
	gth using 3" (7		<u> </u>	th using 4" (10				7	8 0		
**Table assur	**Table assumes straight vent pieces are 3' (0.9m) each.						ngth using 3" (75r	nm) pipe 🔘			
	Shorter or longer vent pieces may also be used up to the maximum allowed vent length.						ngth using 3" (75n	nm) pipe			
F -						3 Short le	ngth using 4" (100	mm) pipe			
		wer must				4 Long ler	ngth using 4" (100	mm) pipe 🔴	•		
	-	ng the dip amount.				ON=	OFF= ()				

Venting With PVC or CPVC

This appliance can be vented with non cellular core plastic pipe materials as specified in the below table.

Item	Material	United States					
	Schedule 40 PVC	ANSI/ASTM D1785					
Exhaust Vent/Air Intake	PVC-DWV	ANSI/ASTM D2665					
	Schedule 40 CPVC	ANSI/ASTM F441					
Pipe Cement/Primer	PVC	ANSI/ASTM D2564					
Pipe Cement/Primer	CPVC ANSI/ASTM F						
Note: Do Not Use Cellular Foam Core Pipe							

PVC/CPVC Installation Instructions

- Use only solid PVC or CPVC schedule 40 pipe. Cellular foam core piping is not allowed.
- 3" or 4" schedule 80 pipe may also be used on this appliance, however the BTUH input of the appliance will be reduced by up to 5%.
- Follow all general venting guidelines as outlined on this page.
- PVC or CPVC pipe has been approved for use on this appliance with zero clearance to combustibles.
- The pipe shall be installed so that the first 3' (0.9m) of pipe from the appliance flue outlet is readily accessible for visual inspection.
- When preparing and assembling the pipe, follow instructions as provided by the pipe manufacturer. In general, the following practices must be observed:
 - o Squarely cut all pieces of pipe.
 - o Remove all burs and debris from joints and fittings.
 - o All joints must be properly cleaned, primed, and cemented. Use only cement and primer approved for use with the pipe material as outlined in the above table.



CARBON MONOXIDE POISONING Failure to properly seal the vent system could cause flue products to enter the living space.

- All piping must be fully supported. Use pipe hangers at a minimum of 3' (0.9m) intervals. Do not use the water heater to support the vent piping.
- When attaching the piping to the water heater, use the appropriate primer and cement to ensure a proper seal.
- A bird screen must be installed on the vent terminations to prevent debris or animals from entering the piping. These screens are not supplied with the water heater and must be purchased separately (part #VT4-PVCS, use part #VT3-PVCS when using 3" (75mm) PVC or CPVC).
- Do not exceed the following maximum vent lengths:

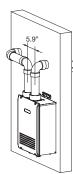
No. of Elbows	3" (75mm) Pipe*	4" (100mm) Pipe*
6	24' (7.2m)	24' (7.2m)
5	30' (9.0m)	30' (9.0m)
4	35' (10.8m)	35' (10.8m)
3	41' (12.6m)	41' (12.6m)
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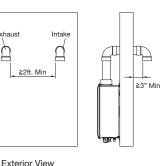
* Not including the termination

Vent Pipe Installation Horizontal Vent Termination- PVC/CPVC Materials Only

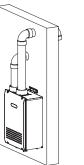
Exhaust

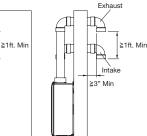
≥2ft. Min





Interior View



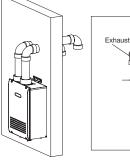


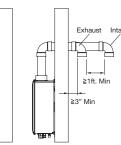
Interior View

Exterior View

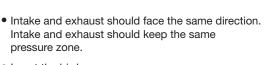
Exterior View

Intake





Interior View



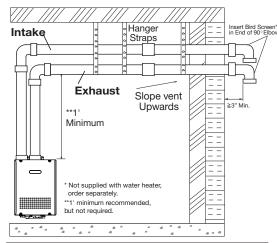
- Insert the bird screen. 90° elbow vertical setting (downward).
- Ensure at least 3ft (0.9m) or more distance between the near edge of the air intake pipe or exhaust pipe to the inside corner of a wall.
- Ensure at least 2ft (0.6m) or more distance between intake pipe and exhaust pipe. The distance is measured at inside of pipe to inner dimension.
- Intake and exhaust should face the same direction. Intake and exhaust should keep the same pressure zone.
- Insert the bird screen. 90° elbow vertical setting (downward).
- Ensure at least 3ft (0.9m) or more distance between edge of air intake pipe or exhaust pipe and corner wall.
- Upper side is exhaust, lower side is intake. The reverse connection is not allowed.
- Ensure at least 1ft (0.3m) or more distance between intake pipe and exhaust pipe. The distance is measured at the outlets of intake port (terminal) and exhaust port (terminal).
- Intake and exhaust should face the same direction. Intake and exhaust should keep the same pressure zone.
- Insert the bird screen. 90° elbow vertical setting (downward).
- Ensure at least 3ft (0.9m) or more distance between edge of air intake pipe or exhaust pipe and corner wall.
- The side distant from wall is intake, the side near the wall is exhaust. The reverse connection is not allowed.
- Ensure at least 1ft (0.3m) or more distance between intake pipe and exhaust pipe. The distance is measured at inside of pipe to inner dimension.

WARNING

- If the distance between the air inlet and exhaust vent terminations is too short, the water heater will draw in the exhaust gases through the intake. There is a risk of inadequate combustion air for the water heater, increasing Carbon Monoxide (CO) emissions and noise due to vibration.
- Termination elbows must be oriented vertically, pointing directly downward. Attempts to prevent exhaust air from entering the air inlet by angling termination elbows in directions other than directly downward will increase the risk of freezing.
- Reversing the air intake and exhaust pipes is not allowed. Carbon Monoxide (CO) emissions and noise due to vibration will increase.

Vent Pipe Installation

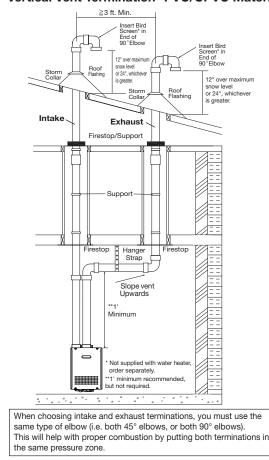
Horizontal Vent Termination- PVC/CPVC Materials Only



When choosing intake and exhaust terminations, you must use the same type of elbow (i.e. both 45° elbows, or both 90° elbows). This will help with proper combustion by putting both terminations in the same pressure zone.

 As illustrated on the left, make sure to keep a distance of 3' (0.9m) or wider between the intake and exhaust when installing the vent piping.

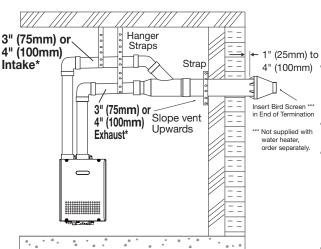
- The PVT-HL termination may be used in place of elbows as the horizontal vent terminations. It is not necessary touse bird screens with the PVT-HL termination.
- Terminate at least 12" (300mm) above grade or above snow line.
- •Terminate at least 7' (2.1m) above a public walkway, 6' (1.8m) from the combustion air intake of any appliance, and 3' (0.9m) from any other building opening, gas utility meter, service regulator etc.
- Terminate at least 3' (0.9m) above any forced air inlet within 10' (3m) , 1' (0.3m) below, 1' (0.3m) horizontally from or 1' (0.3m) above any door, window, or gravity air inlet into any building per National Fuel Gas Code ANSI Z223.1/NFPA 54.
- Slope the horizontal vent 1/4" upwards for every 12" (300mm) toward the termination.
- Use a condensation drain if necessary.
- In the Commonwealth of Massachusetts a carbon monoxide detector is required for all side wall horizontally vented gas fuel equipment. Please refer to Technical Bulletin TB 010606 for full installation instructions.



Vertical Vent Termination- PVC/CPVC Materials Only

- As illustrated on the left, make sure to keep a distance of 3' (0.9m) or wider between the intake and exhaust when installing the vent piping.
- Terminate at least 6' (1.8m) from the combustion air intake of any appliance, and 3' (0.9m) from any other building opening, gas utility meter, service regulator etc.
- Enclose exterior vent systems below the roof line to limit condensation and protect against mechanical failure.
- When the vent penetrates a floor or ceiling and is not running in a fire rated shaft, a firestop and support is required.
- When the vent termination is located not less than 8' (2.4m) from a vertical wall or similar obstruction, terminate above the roof at least 2' (0.6m), but not more than 6' (1.87m), in accordance with the National Fuel Gas Code ANSI Z223.1/NFPA 54.
- Provide vertical support every 3' (0.9m) or as required by the vent pipe manufacturer's instructions.
- A short horizontal section is recommended to prevent debris from falling into the water heater.
- When using a horizontal section, slope the horizontal vent 1/4" upwards for every 12" (300mm) toward the termination to drain condensate.

Horizontal Vent Termination- 3" (75m) Concentric PVC/CPVC Termination



 * 4" (100mm) pipe requires the use of a reducing coupling just prior to the termination.

No. of Elbows	3" (75mm) PVC or CPVC Max. Straight Vent Length**	4" (100mm) PVC or CPVC Max. Straight Vent Length**
6	24' (7.2m)	24' (7.2m)
5	30' (9.0m)	30' (9.0m)
4	35' (10.8m)	35' (10.8m)
3	41' (12.6m)	41' (12.6m)
2	47' (14.4m)	47' (14.4m)
1	53' (16.2m)	53' (16.2m)

** Not including the concentric termination

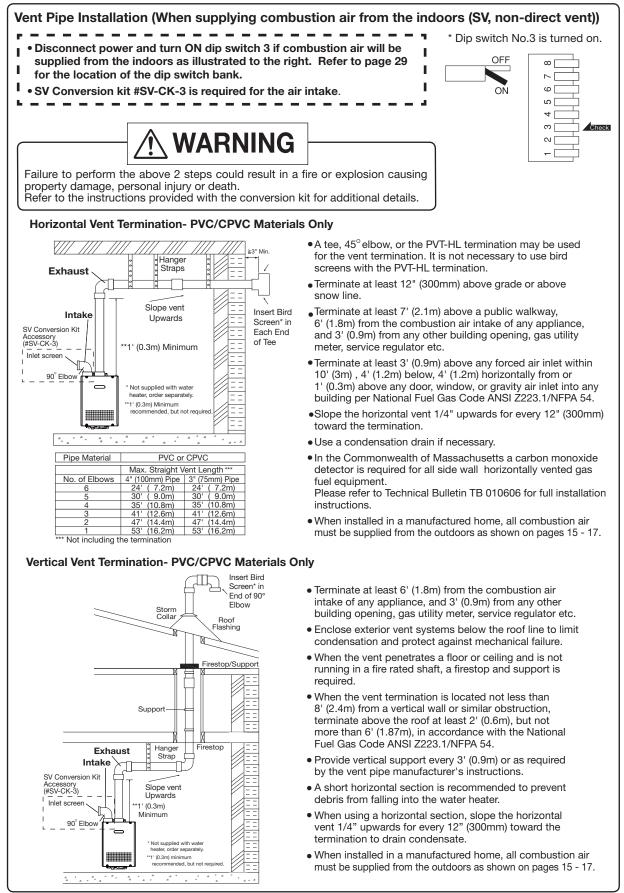
• The concentric termination may be shortened, but not lengthened from its original factory supplied length.

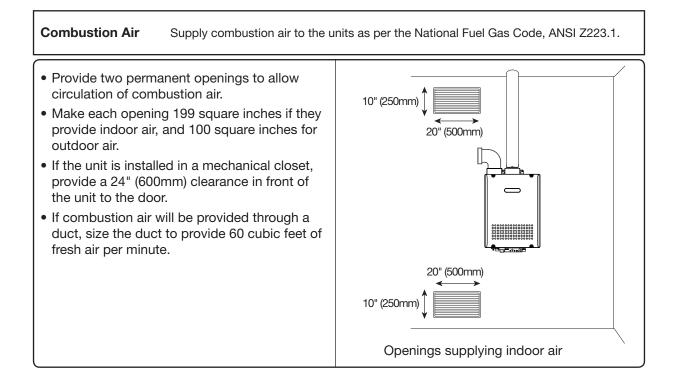
The concentric termination may only be used for horizontal terminations.

- 4" (100mm) • 3" (75mm) or 4" (100mm) PVC or CPVC pipe may be used with the concentric termination. Maintain the same vent pipe diameter from the water heater flue to the termination.
 - Do not exceed the maximum vent lengths as specified in this section.
 - When using 4" (100mm) pipe, it will be necessary to use 4" (100mm) x 3" (75mm) reducing couplings and a short section of 3" (75mm) pipe to connect to the termination.

Use no more than a 6" (150mm) section of pipe to make the connection between the reducing couplings and the termination.

- There must be a 1" (25mm) to 4" (100mm) clearance between the outside wall and the air intake section of the termination as illustrated on the left.
- Install a securing strap to prevent movement of the termination.
- Terminate at least 12" (300mm) above grade or above snow line.
- Terminate at least 7' (2.1m) above a public walkway, 6' (1.8m) from the combustion air intake of any appliance, and 3' (0.9m) from any other building opening, gas utility meter, service regulator etc.
- Terminate at least 3' (0.9m) above any forced air inlet within 10' (3m), 1' (0.3m) below, 1' (0.3m) horizontally from or 1' (0.3m) above any door, window, or gravity air inlet into any building per National Fuel Gas Code ANSI Z223.1/NFPA 54.
- Slope the horizontal vent 1/4" upwards for every 12" (300mm).
- Use a condensation drain if necessary.
- In the Commonwealth of Massachusetts a carbon monoxide detector is required for all side wall horizontally vented gas fuel equipment.
 Please refer to Technical Bulletin TB 010606 for full installation instructions.





9. Gas Piping

Follow the instructions from the gas supplier.

The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of $\frac{1}{2}$ psig (3.5 kPa).

The Appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than $\frac{1}{2}$ psig (3.5 kPa).

The appliance and its gas connections must be leak tested before placing the appliance in operation.

The inlet gas pressure must be within the range specified. This is for the purposes of input adjustment.

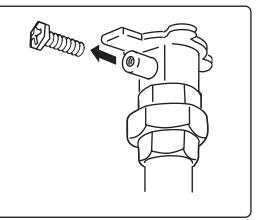
In order to choose the proper size for the gas line, consult local codes or the National Fuel Gas Code ANSI Z223.1.

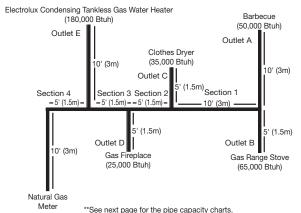
Gas Pressure Size the gas line according to total btuh demand of the building and length from the meter or regulator so that the following supply pressures	Gas Meter Select a gas meter capable of supplying the entire btuh demand of all gas appliances in the building.
are available even at maximum demand: Natural Gas Supply Pressure Min. 4" WC Max. 10.5" WC LP Gas Supply Pressure Min. 8" WC Max. 14" WC	 Gas Connection Do not use piping with a diameter smaller than the inlet diameter of the water heater. Gas flex lines are not recommended unless they are rated for 180,000 btuh. Install a gas shutoff valve on the supply line. Use only approved gas piping materials.

Measuring Gas Pressure

In order to check the gas supply pressure to the unit, a tap is provided on the gas inlet. Remove the hex head philips screw from the tap, and connect a manometer using a silicon tube.

In order to check the gas manifold pressure, a pair of taps are provided on the gas valve inside the unit. The pressure can be checked either by removing the hex head philips screw and connecting a manometer with a silicon tube, or by removing the 1/8" NPT screw with an allen wrench and connecting the appropriate pressure gauge.





Sample Gas Line

Instructions

- 1. Size each outlet branch starting from the furthest using the Btuh required and the length from the meter.
- 2. Size each section of the main line using the length to the furthest outlet and the Btuh required by everything after that section.

Sample Calculation

Outlet A: 45' (13.5m) (Use 50' (15m)), 50,000 Btuh requires 1/2" Outlet B: 40' (12m), 65,000 Btuh requires 1/2" Section 1: 45' (13.5m) (Use 50' (15m)), 115,000 Btuh requires 3/4" Outlet C: 30' (9m), 35,000 Btuh requires 1/2" Section 2: 45' (13.5m) (Use 50' (15m)), 150,000 Btuh requires 3/4" Outlet D: 25' (7.5m) (Use 30' (9m)), 25,000 Btuh requires 1/2" Section 3: 45' (13.5m) (Use 50' (15m)), 175,000 Btuh requires 1" Outlet E: 25' (7.5m) (Use 30' (9m)), 199,900 Btuh requires 3/4" Section 4: 45' (13.5m) (Use 50' (15m)), 374,900 Btuh requires 1-1/4"

Gas Line Sizing for an Electrolux Condensing Tankless Gas Water Heater

Adapted from UPC 1997

Maximum Natural Gas Delivery Capacity in Cubic Feet per Hour (0.60 Specific Gravity, 0.5" WC Pressure Drop)

Pipe	Length in Feet										
Size	10' (3m)	20' (6m)	30' (9m)	40' (12m)	50' (15m)	60' (18m)	70' (21m)	80' (24m)	90' (27m)	100' (30m)	125' (37.5m)
1/2"	174	119	96	82	73	66	61	56	53	50	44
3/4"	363	249	200	171	152	138	127	118	111	104	93
1"	684	470	377	323	286	259	239	222	208	197	174
1 1/4"	1404	965	775	663	588	532	490	456	428	404	358
1 1/2"	2103	1445	1161	993	880	798	734	683	641	605	536
2"	4050	2784	2235	1913	1696	1536	1413	1315	1234	1165	1033
2 1/2"	6455	4437	3563	3049	2703	2449	2253	2096	1966	1857	1646
3"	11,412	7843	6299	5391	4778	4329	3983	3705	3476	3284	2910
3 1/2"	16,709	11,484	9222	7893	6995	6338	5831	5425	5090	4808	4261
4"	23,277	15,998	12,847	10,995	9745	8830	8123	7557	7091	6698	5936
	Contac	t the Gas	Supplier 1	for Btu/Cu	bic Ft. of	the Supp	lied Gas.	1000 BTL	J/Cubic Ft	. is a Typi	cal Value

Maximum Liquefied Petroleum (Undiluted) Delivery Capacity in Thousands of Btuh (0.5" WC Pressure Drop)

_	<u> </u>				,							·	
Pipe		Length in Feet											
Size	10' (3m)	20' (6m)	30' (9m)	40' (12m)	50' (15m)	60' (18m)	70' (21m)	80' (24m)	90' (27m)	100' (30m)	125' (37.5m)	150' (45m)	200' (60m)
1/2"	275	189	152	129	114	103	96	89	83	78	69	63	55
3/4"	567	393	315	267	237	217	196	185	173	162	146	132	112
1"	1071	732	590	504	448	409	378	346	322	307	275	252	213
1 1/4"	2205	1496	1212	1039	913	834	771	724	677	630	567	511	440
1 1/2"	3307	2299	1858	1559	1417	1275	1181	1086	1023	976	866	787	675
2"	6221	4331	3465	2992	2646	2394	2205	2047	1921	1811	1606	1496	1260

** For reference only. Please consult gas pipe manufacturer for actual pipe capacities.

Maximum Capacity of Flex TracPipe[®] in Cubic Feet per Hour of Natural Gas (0.60 Specific Gravity, 0.5" WC Pressure Drop)

Pipe		Length in Feet										
Size	10' (3m)	20' (6m)	30' (9m)	40' (12m)	50' (15m)	60' (18m)	70' (21m)	80' (24m)	90' (27m)	100' (30m)	150' (45m)	200' (60m)
3/4"	206	147	121	105	94	86	80	75	71	67	55	48
1"	383	269	218	188	168	153	141	132	125	118	94	82
1 1/4"	614	418	334	284	251	227	209	194	181	171	137	116
1 1/2"	1261	888	723	625	559	509	471	440	415	393	320	277
2"	2934	2078	1698	1472	1317	1203	1114	1042	983	933	762	661

Maximum Capacity of Flex TracPipe® in Thousands of Btuh Liquefied Petroleum (0.5" WC Pressure Drop)

	Pipe		Length in Feet										
	Size	10' (3m)	20' (6m)	30' (9m)	40' (12m)	50' (15m)	60' (18m)	70' (21m)	80' (24m)	90' (27m)	100' (30m)	150' (45m)	200' (60m)
	3/4"	325	232	191	166	149	136	126	118	112	106	87	76
	1"	605	425	344	297	265	241	222	208	197	186	143	129
	1 1/4"	971	661	528	449	397	359	330	307	286	270	217	183
	1 1/2"	1993	1404	1143	988	884	805	745	696	656	621	506	438
[2"	4638	3285	2684	2327	2082	1902	1761	1647	1554	1475	1205	1045

** For reference only. Please consult gas pipe manufacturer for actual pipe capacities.

TracPipe® is a registered trademark of Omega Flex.

Maximum Capacity for Gas Flex Connectors in Cubic Feet per Hour of Natural Gas (0.60 Specific Gravity, 0.5" WC Pressure Drop)

Pipe	Length in Inches							
Size	12" (300mm)	24" (600mm)	36" (900mm)	48" (1200mm)	60" (1500mm)	72" (1800mm)		
1/2"	180	150	125	106	93	86		
3/4"	_	290	255	215	197	173		
1"	_	581	512	442	397	347		
1 1/4"		1470	1200	1130	960	930		

Maximum Capacity for Gas Flex Connectors in Thousands of Btuh Liquefied Petroleum (0.5" WC Pressure Drop)

Pipe	Length in Inches							
Size	12" (300mm)	24" (600mm)	36" (900mm)	48" (1200mm)	60" (1500mm)	72" (1800mm)		
1/2"	288	240	200	169	149	137		
3/4"		465	409	344	315	278		
1"		930	825	708	638	556		
1 1/4"		2352	1920	1808	1536	1488		

** For reference only. Please consult gas pipe manufacturer for actual pipe capacities.

10. Water Piping

Installation and service must be performed by a qualified plumber. In the Commonwealth of Massachusetts, this product must be installed by a licensed plumber or gas fitter in accordance with the Massachusetts Plumbing and Fuel Gas Code 248 CMR Sections 2.00 and 5.00. Observe all applicable codes.

This appliance is suitable for combination potable water and space heating applications. It cannot be used for space heating applications only. Do not use this appliance if any part has been underwater. Immediately call a qualified service technician to inspect the appliance and replace any part of the control system and gas control which has been under water.

If the water heater is installed in a closed water supply system, such as one having a backflow preventer in the cold water supply line, means shall be provided to control thermal expansion. Contact the water supplier or a local plumbing inspector on how to control this situation.

A pressure relief valve must be installed near the hot water outlet that is rated in accordance with and complying with either The Standard for Relief Valves and Automatic Shutoff Devices for Hot Water Supply Systems, ANSI Z21.22, or The ANSI/ASME Boiler and Pressure Vessel Code, Section IV (Heating Boilers). This pressure relief valve must be capable of an hourly Btu rated temperature steam discharge of 180,000 Btuh. Multiple valves may be used. The pressure relief capacity must not exceed 150 psig. No valve shall be placed between the relief valve and the water heater. The relief valve must be installed such that the discharge will be conducted to a suitable place for disposal when relief occurs. No reducing coupling or other restriction may be installed in the discharge line. The discharge line must be installed to allow complete drainage of both the valve and the line. If this unit is installed with a separate storage vessel, the separate vessel must have its own temperature and pressure relief valve. This valve must also comply with The Standard for Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems, ANSI Z21.22. (in the U.S. only). A temperature relief valve is not required, but if one is used, do not install the valve with the probe directly in the flow of water. This may cause unwarranted discharge of the valve.

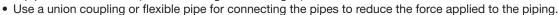
Piping and components connected to the water heater shall be suitable for use with potable water.

Toxic chemicals, such as those used for boiler treatment, shall not be introduced into the potable water.

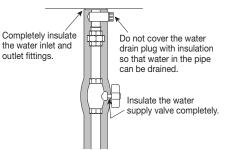
A water heater used to supply potable water may not be connected to any heating system or components previously used with a nonpotable water heating appliance.

When water is required in one part of the system at a higher temperature than in the rest of the system, means such as a mixing valve shall be installed to temper the water to reduce the scald hazard.

- Flush water through the pipe to clean out metal powder, sand and dirt before connecting it.
- Perform the following insulation measures for prevention of freezing.
 - Take appropriate heat insulation measures (e.g., wrapping with heat insulation materials, using electric heaters) according to the climate of the region to prevent the pipe from freezing.
 - Make sure that there are no water leaks from the cold and hot water supply pipes, then insulate the pipes completely.
 - Be sure to also completely insulate the water supply valve and the cold and hot water connections on the water heater (refer to the figure on the right).
 - Do not cover the water drain plug with insulation so that water in the pipe can be drained. (Refer to the figure in the right.)



- Do not use piping with a diameter smaller than the coupling.
- When feed water pressure is too high, insert a depressurizing valve, or take water hammer prevention measure.
- Avoid using joints as much as possible to keep the piping simple.
- Avoid piping in which an air holdup can occur.
- If installing the unit on a roof:
 - If the unit is installed on a roof to supply water to the levels below, make sure that the water pressure supplied to the unit does not drop below 29 psi. It may be necessary to install a pump system to ensure that the water pressure is maintained at this level.
 - Check the pressure before putting the unit into operation.
 - Failure to supply the proper pressure to the unit may result in noisy operation, shorter lifetime of the unit, and may cause the unit to shut down frequently.



 Supply water piping Do not use PVC, iron, or any piping which has been treated with chromates, boiler seal or other chemicals. Mount a check valve and a shut off valve (near the inlet). In order for the client to use the water heater comfortably, 98.1 to 491 kPa (14 to 70 PSI) of pressure is needed from the water supply. Be sure to check the water pressure. If the water pressure is low, the water heater cannot perform to its full capability, and may become a source of trouble for the client. Drain piping Expansion water may drop from the pressure relief valve and wet the floor. If necessary, provide drain piping or use a drain hose to remove the water. 	 Hot water piping Do not use lead, PVC, iron or any piping which has been treated with chromates, boiler seal or other chemicals. The longer the piping, the greater the heat loss. Try to make the piping as short as possible. Use mixing valves with low water resistance. Use shower heads with low pressure loss. If necessary, use a pump or other means to ensure that the supply water pressure to the inlet of the heater does not fall below 29 PSI when the maximum amount of water is being demanded. Also install a pressure meter on the inlet. If this is not done, local boiling will occur inside the water heater causing abnormal sounds and decreasing the durability of the heat exchanger.
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Freeze Prevention

- Freezing is prevented within the device automatically unless the outside temperature without wind is below -30°F (-35°C).
- * When combustion air is supplied from the indoors, the room temperature must be greater than 32°F (0°C) to prevent freezing and the room inside must not have negative pressure.
- If this model is installed in an area where the outside temperature can approach freezing conditions of -30°F (-35°C) or below, then additional freeze protection measures must be used. For temporary freeze protection measures, refer to the Use and Care Manual.
- The freeze prevention heaters will not prevent the plumbing external to the unit from freezing. Protect this plumbing with insulation, heat tape or electric heaters, solenoids, or pipe covers.
- In order for the freeze prevention heaters to operate, the water heater must have power at all times.

Water Treatment

If this water heater will be installed in an application where the supply water is hard, the water must be treated with a water softener or scale inhibitor. Refer to the below tables for suggested treatment and maintenance measures to be taken based on the water hardness level. Damage to the water heater as a result of water in excess of 12 gpg (200 mg/L) of hardness is not covered by the Electrolux Home Products, Inc. Warranty.

Note: Water softeners may be regulated by the local water jurisdiction, consult with the manufacturer for code, sizing, and installation guidelines; the below diagram is for reference only.

Type of Water	Hardness	Treatment	Flush			
	Level	Device	Frequency*			
Soft	0-1 gpg (0-17 mg/L)	None	None			
Slightly Hard	1-3 gpg (17-51 mg/L)	None	None			
Moderately	3-7 gpg	Water Softener	Once a Year**			
Hard	(51-120 mg/L)	Scale Inhibitor				
Hard	7-10 gpg (120-171 mg/L)	Water Softener Scale Inhibitor	Once a Year**			
Very Hard	10-14 gpg	Water Softener	Treatment			
	(171-239 mg/L)	Scale Inhibitor	Required			
Extremely	> 14 gpg	Water Softener	Treatment			
Hard	(> 239 mg/L)	Scale Inhibitor	Required			

Residential Use Treatment Guidelines

Type of Water Level Device Frequency' 0-1 gpg Soft None None (0-17 mg/L) 1-3 gpg Slightly Hard None None (17-51 mg/L) 3-7 gpg Moderately Water Softener Once a Year (51-120 mg/L) Hard Scale Inhibito 7-10 gpg Water Softener Hard Twice a Year (120-171 mg/L) Scale Inhibitor 10-14 gpg Water Softener Treatment Very Hard Required (171-239 mg/L) Scale Inhibitor Extremely > 14 gpg Water Softener Treatment (> 239 mg/L) Hard Scale Inhibitor Required

Commercial Use Treatment Guidelines

Treatment

Flush

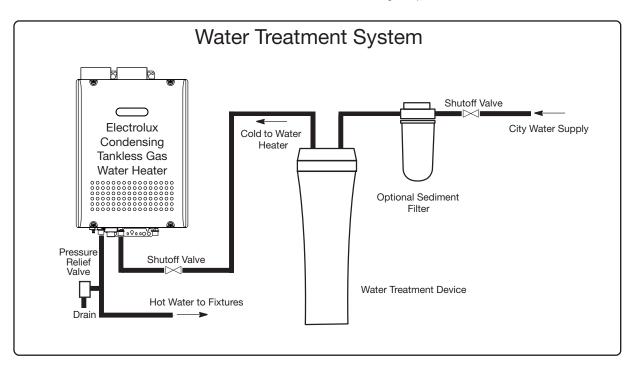
Hardness

* Install Isolation Valves to allow for flushing.

** Flushing is required if a water treatment device is not installed.

* Install Isolation Valves to allow for flushing.

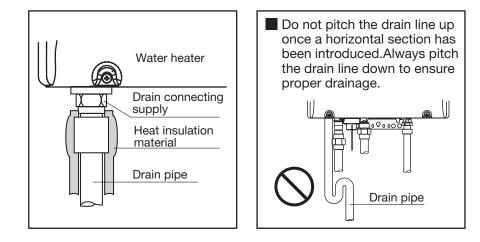
** Flushing is required if a water treatment device is not installed.

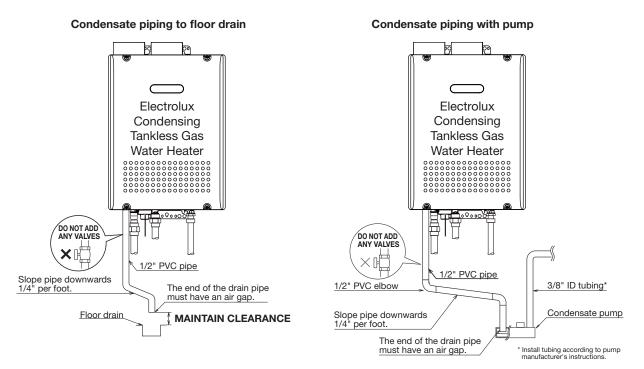


11. Condensate Piping

Due to the acidic nature of the condensate, be sure to properly drain and if necessary, treat the condensate prior to disposal. Damage caused by improperly handled condensate is not covered by the warranty.

- This water heater is a high efficiency, fully condensing appliance which produces acidic condensate during operation. The water heater incorporates a collection and removal system which must be properly drained in order to ensure proper operation of this appliance.
- The pH level of the condensate is approximately 2-3. An external neutralizer must be installed on the drain piping prior to disposal when required by local code or when the condensate could cause damage.
- If an external neutralizer is installed, periodic replacement of the neutralizing agent will be required. Refer to the instructions supplied with the neutralizer for suggested replacement intervals.
- In order to drain the condensate, a 1/2" threaded fitting is provided at the base of the water heater. Do not reduce the size of this fitting or the drain piping to less than 1/2". In cold climates, do not drain the condensate to the outdoors. If the drain pipe freezes during cold weather, the pipe will not drain condensate and the unit will stop operating.
- Use plastic pipe, such as PVC, for the drain line. Do not use steel, black iron, or any other material which can corrode when placed into contact with acidic condensate.
- Keep the length of the drain pipe as short as possible. Long runs or applications where the nearest drain is above the water heater will require the use of a condensate pump. Size the pump to allow for a maximum condensate discharge of 2 GPH from the water heater.
- Horizontal runs must be sloped 1/4" per foot towards the drain or condensate pump. The condensate will be discharged by gravity force only. Make the drain pipe run as short as possible.
- The end of the drain pipe must not be submerged in water or blocked in any way. To ensure proper drainage, leave the end of the drain pipe open to the atmosphere. Do not have a trap. Also, make sure that there are no obstructions blocking the drain line from discharging condensate.
- Be sure to check that condensate is freely flowing from the drain piping after the system has been installed. Condensate will begin flowing out of the water heater within 15 minutes after operation has started.
- Take measures to prevent the condensate drain lines from freezing (insulation, heat tape, electric heaters, etc.).



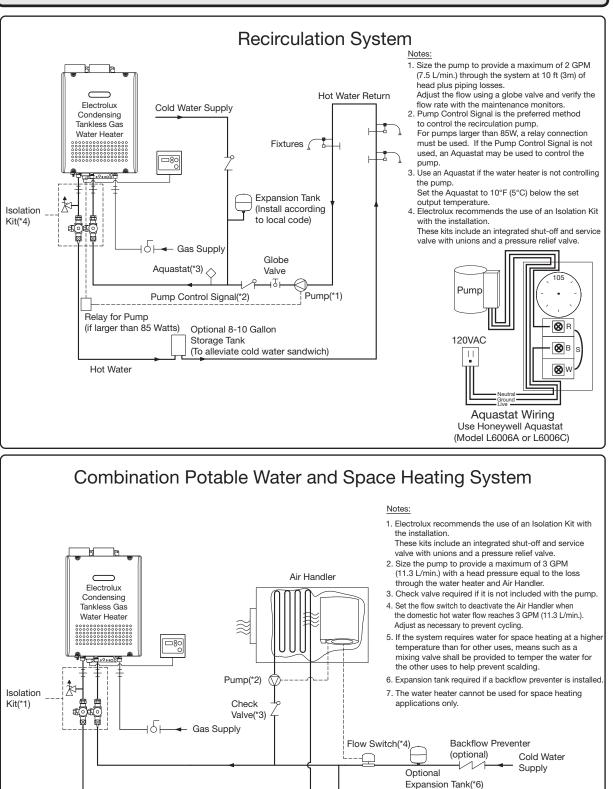


Note:

If the drain line becomes clogged or frozen, condensate will back-up into the water heater and a "29" error code will flash on the remote controller, ceasing operation. If this occurs, clear the clog or freeze so that condensate can freely flow. Be sure to slope the drain pipe, use the appropriate size pipe, allow the proper clearances, and apply freeze prevention measures (when necessary) to prevent the drain line from clogging or freezing.

12. Plumbing Applications

Hot Water



Mixing Valve(*5)

Fixtures

13. Electrical Wiring

Consult a qualified electrician for the electrical work.



Do not connect electrical power to the unit until all electrical wiring has been completed.

This appliance must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70.

Caution: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.

Verify proper operation after servicing.

Field wiring to be performed at time of appliance installation.



Electrical Shock Hazard

Do not turn power on until electrical wiring is finished. Disconnect power before servicing. Failure to do so may result in death or serious injury from electrical shock.

• The electrical supply required by the water heater is 120VAC at 60 Hz. The power consumption may be up to 291W or higher if	• Do not let the power cord contact the gas piping.		
 In power consumption may be up to 29 tw of higher in using optional accessories. Use an appropriate circuit. Do not disconnect the power supply when not in use. When the power is off, the freeze prevention in the water heater will not activate, resulting in possible freezing damage. 	Tie the redundant power cord outside the water heater. Putting the redundant length of cord inside the water heater may cause electrical interference and faulty operation.		

Ground

• To prevent electrical shock, provide a ground with resistance less than 100 Ω . An electrician should do this work.

Do not connect the ground to the city water or gas piping. Do not tie the ground to a telephone line.

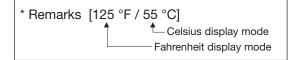
Breaker Installation

• Mount a device which shuts off the electrical path automatically (leakage breaker) when electrical leakage is detected.



Electrostatic discharge can affect electronic components. Take precautions to prevent electrostatic discharges from personnel or hand tools during the water heater installation and servicing to protect product's electronic control.

Remote Controller

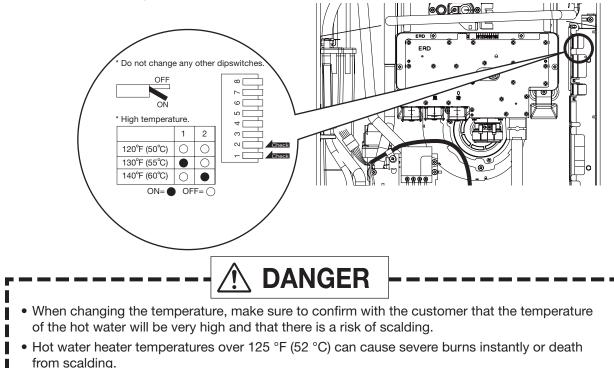


Install the remote controller according to the instructions in the Installation Guide (p. 36).

- * Only one remote controller can be connected to the water heater. A malfunction may occur if two or more remote controllers are connected.
- * The water heater has been factory set to allow a maximum temperature setting of [120 °F / 50 °C]. To access higher temperature settings through the remote controller, follow the below steps.

<When setting the maximum temperature to [125 -140 °F / 55 - 60 °C]>

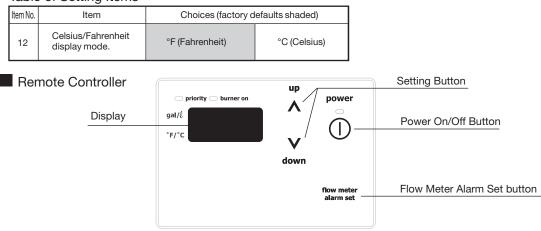
- 1. Turn the water heater off by pressing the Power On/Off Button on the remote controller.
- 2. Press and hold the FLOW METER ALARM SET Button until a sound is heard (2 sec.) and [120 °F / 50 °C] appears on the display.
- 3. Set the upper limit of the hot-water supply temperature to [125 °F, 130 °F, 135 °F or 140 °F / 55 °C or 60 °C] using the UP and DOWN setting Buttons.
- 4. To put the water heater back into operation, press the Power On/Off Button on the remote controller. To keep the water heater off, let the unit sit for 30 sec. to return to the original display.
- This unit can be programmed so that it will default to one of three temperatures if the remote controller is removed [140 °F (60 °C), 130 °F (55 °C), 120 °F (50 °C)]. To change the default temperature, adjust the dip switches as described below. The default temperature is 120 °F (50 °C).
- 1. Disconnect electrical power to the water heater.
- 2. Remove the front cover of the water heater (4 screws).
- 3. Disconnect the remote controller. Adjust the dip switches as illustrated below.
- 4. Replace the front cover of the water heater (4 screws).
- 5. Reconnect electrical power to the water heater.



Connecting Remote Controller Cord to Unit						
 Keep the remote controller cord away from the free Tie the redundant cord outside the water heater. Do The remote controller cord can be extended up to 3 Use a Y type terminal with a resin sleeve. (Without cause problems). Be sure to hand tighten when screwing to the terminat block. 	not put the extra length inside the equipment. 300' (90m) with 18AWG wire. the sleeve, the copper wire may corrode and					
 Remote controller cord For extensions, a 26' (8m) cord can be purchased (Part #RC-CORD26) or use 18AWG wire. Install according to the National Electrical Code and all applicable local codes. 						
 Check to make sure that the remote controller cord has plenty of slack in order to reach the external connection terminal block. Disconnect electrical power to the water heater. Remove the single screw securing the terminal block cover and then remove the cover. Pass the remote controller cord through the wiring throughway and connect the Y terminals at the end of the remote controller cord to the terminal block. Replace the terminal block cover and install the screw previously removed in step 3. Reconnect electrical power to the water heater. 	External connection terminal block Wiring throughway Remote controller cord					

Adjusting the Temperature Display Note: The setting must be done within the first 10 minutes of connecting electrical power to the water heater.

Table of Setting Items



Setting Procedure

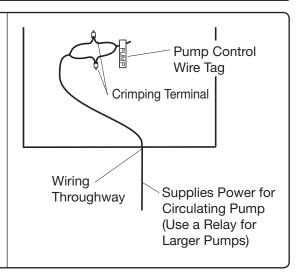
- 1. Turn the water heater off by pressing the Power On/Off Button on the remote controller.
- 2. Disconnect, then reconnect electrical power to the water heater.
- 3. Press the Flow Meter Alarm Set Button and hold it in for 2 seconds or more.
- 4. Press the Flow Meter Alarm Set Button until the remote controller displays item number "12".
- 5. Press Setting Button "A" for 5 seconds or more to change the display units to °F.
- 6. Press Setting Button "▼" for 5 seconds or more to change the display units to °C.
- 7. To confirm the setting, turn the water heater on by pressing the Power On/Off Button on the remote controller.

Pump Wiring

* This feature is not available when using the Quick Connect Multi System feature.

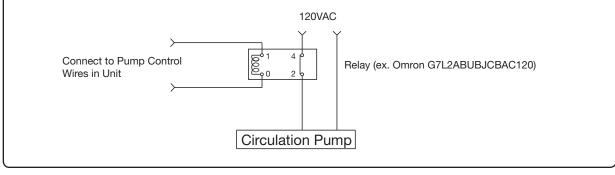
Connecting the pump control wire

- 1. Leave enough slack so that the pump control wires will stay connected if the unit is removed from the wall.
- 2. Remove the front cover of the heater (4 screws).
- 3. Cut off the connector at the end of the pump control wires.
- 4. Wire the pump control wires through the wiring throughway and connect them to the wiring inside the pump (this will be the power supply for the pump, do not also connect 120VAC to the pump). If a large pump is being used (greater than 85W) use the voltage from these wires as the signal to close a normally open relay through which 120VAC will be supplied directly from a wall circuit to the pump.
- 5. Replace the front cover.



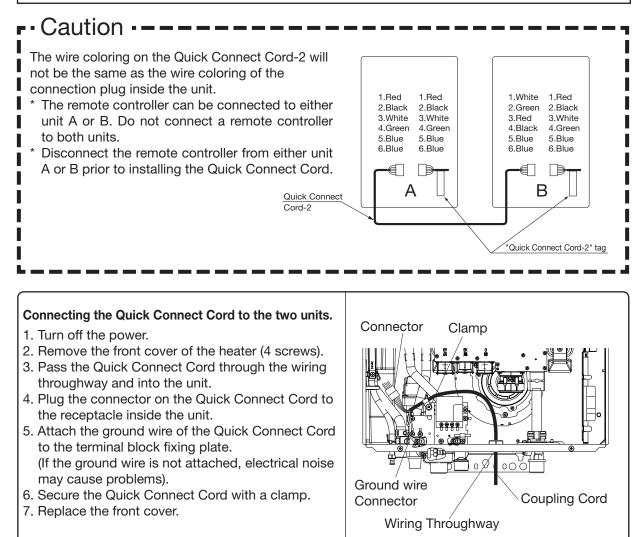
Relay connection with larger pumps (>85 W)

- 1. Locate and prepare the pump control wires as described above.
- 2. Choose a suitable installation location for the relay where it will be protected from moisture.
- 3. Connect the pump control wires from the heater to the signal input on the relay.
- 4. Cut one of the electrical supply leads and wire it across the open terminals of the relay.
- 5. Secure all connections and replace the front cover of the heater.



Connecting Quick Connect Cord-2

For Quick Connect Multi System Installation use part #QC-2 only. (Sold Separately)



14. Maintenance

Periodically check the following to ensure proper operation of the water heater.

- The venting system must be examined periodically by a qualified service technician to check for any leaks or corrosion.
- The burner flame must be checked periodically for a proper blue color and consistency.
- If the flame does not appear normal, the burner may need to be cleaned.
- If the burner needs to be cleaned, it must be performed by a qualified service technician.
- Do not obstruct the flow of combustion and ventilation air.
- The pressure relief valve must be operated once a year to ensure that it is functioning properly and there is no obstruction. Turn the power off to the unit before opening the relief valve, and make sure that water draining out of the valve will not cause any damage.
- If the relief valve discharges periodically, it may be due to thermal expansion in a closed water system. Contact the water supplier or a local plumbing inspector on how to correct this situation. Do not plug the relief valve.

• See Use and Care Manual for further maintenance.

Warning: There is a scald potential if the output temperature is set too high.

Should overheating occur, or the gas supply fail to shut off, turn off the manual gas control valve to the appliance. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

Periodically check and clean the filter inside the cold water inlet of the unit.

15. Trial Operation

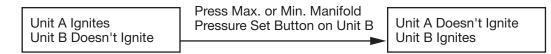
The installer should test operate the unit, explain to the customer how to use the unit, and give the owner this manual before leaving the installation.

- Preparation (1) Open a hot water fixture to confirm that water is available, and then close the fixture.
 - (2) Open the gas supply valve.
 - (3) Turn on the power supply. Using the remote controller, turn on the Power On/Off button (the Operation lamp will turn on).
- (1) Open a hot water fixture and confirm that the Burner On lamp comes on, and that hot water is being produced. (If necessary, repeat until the air in the gas piping is bled out).
 - * White smoke may be noticed from the exhaust vent during cold weather. However, this is not a malfunction of the unit.
 - * If an "11" error code appears on the remote controller, turn the unit off and then back on again, and then open a hot water fixture again.
- (2) Change the temperature setting on the remote controller and check that the water temperature changes.
- If the water heater does not operate normally, refer to "Troubleshooting" in the Use and Care Manual.
 * After the trial operation, clean the filter in the cold water inlet.

If installed with a quick connect multi-system>

- Turn the system power ON with the remote controller.
- Slowly open a hot water fixture and check that the units ignite sequentially. Check to see that the hot water temperature is the same as the temperature displayed on the remote controller. (*1)

* If both units do not ignite, switch which unit will ignite first by pressing the Max. or Min. Mani-fold Pressure Set Button on the circuit board. (*2)



- * If an 11 or F11 error code flashes on the remote controller, hit the Power Button on the remote controller off and on 2 -3 times.
- * If (*1) and (*2) cannot be done, the Quick Connect Cord may not be properly connected. Check that the cord is properly connected.

Handling after trial operation

• If the unit will not be used immediately, close off all gas and water shutoff valves, drain all of the water out of the unit and the plumbing system to prevent the unit and system from freezing, and bleed the gas out of the gas line.

Freezing is not covered by the warranty.

A fire or explosion may result if these instructions are not followed, which may cause loss of life, personal injury or property damage.

Lighting Instructions

This water heater does not have a pilot. It is equipped with an ignition device that automatically lights the burner.

Do not try to light the burner by hand.

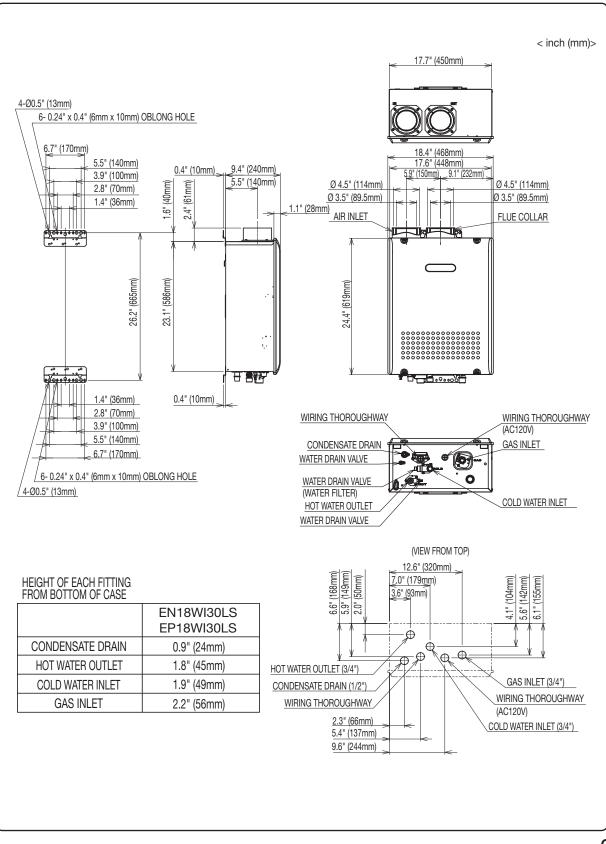
- 1. Read the safety information in the installation manual or on the front of the water heater.
- 2. Turn off all electrical power to the unit.
- 3. Do not attempt to light the burner by hand.
- 4. Turn the gas control manual valve (external to the unit) clockwise to the off position.
- 5. Wait five minutes to clear out any gas. If the smell of gas remains, stop, and follow the instructions on page 3 of Use and Care Manual.
- 6. Turn the gas control manual valve counterclockwise to the on position.
- 7. Turn on electric power to the unit.
- 8. The unit will now operate whenever hot water is called for. If the unit will not operate, follow the shutdown instructions and call a service technician.

Shutdown Instructions

- 1. Stop any water demand.
- 2. Turn off electric power.
- 3. Turn the gas control manual valve clockwise to the off position.

Should overheating occur, or the gas supply fail to shut off, turn off the manual control valve to the appliance.

16. Dimensions



Remote Controller

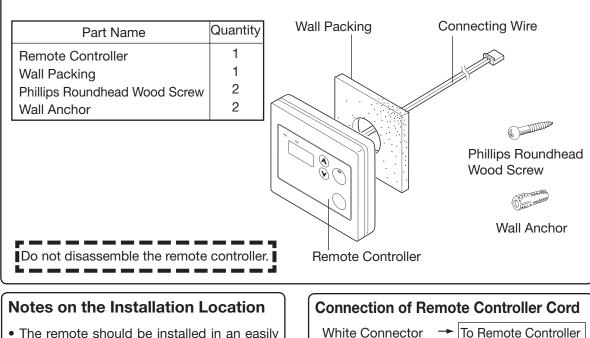
For Installers:

Read this installation guide carefully before carrying out installation.

Installation Guide Electrolux Home Products, Inc.

Note - -Do not connect power to the water heater before the remote controller has been properly installed. Recommended installation location of the remote controller is in a bathroom.

Included Parts List



- The remote should be installed in an easily accessible location.
- Avoid installing in a place where water or steam can come into contact with the controller.
- Avoid locations where special chemical agents (e.g., benzene, fatty and oily detergents) are used.
- · Avoid outdoor installation, or installation in an indoor location where it will be exposed to direct sunlight.

Y-shaped terminals → To Water Heater (two-core)

- Confirm the connection with the labels at both ends of the remote controller cord.
- A 26' (8m) cord can be purchased separately (Part # RC-CORD26).
- The remote controller cord can be extended up to 300 ft (90m). by splicing the cord and using 18 gauge wire to extend the cord to the appropriate length.

